

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

2012 OCTO - 22014 OCTO

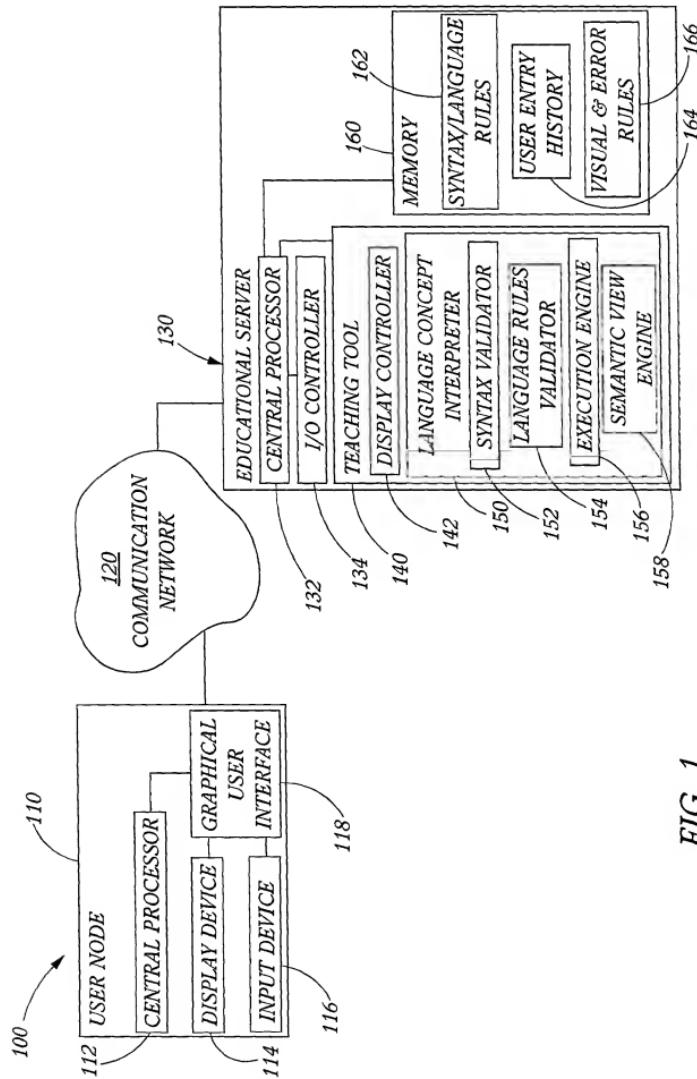


FIG. 1

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

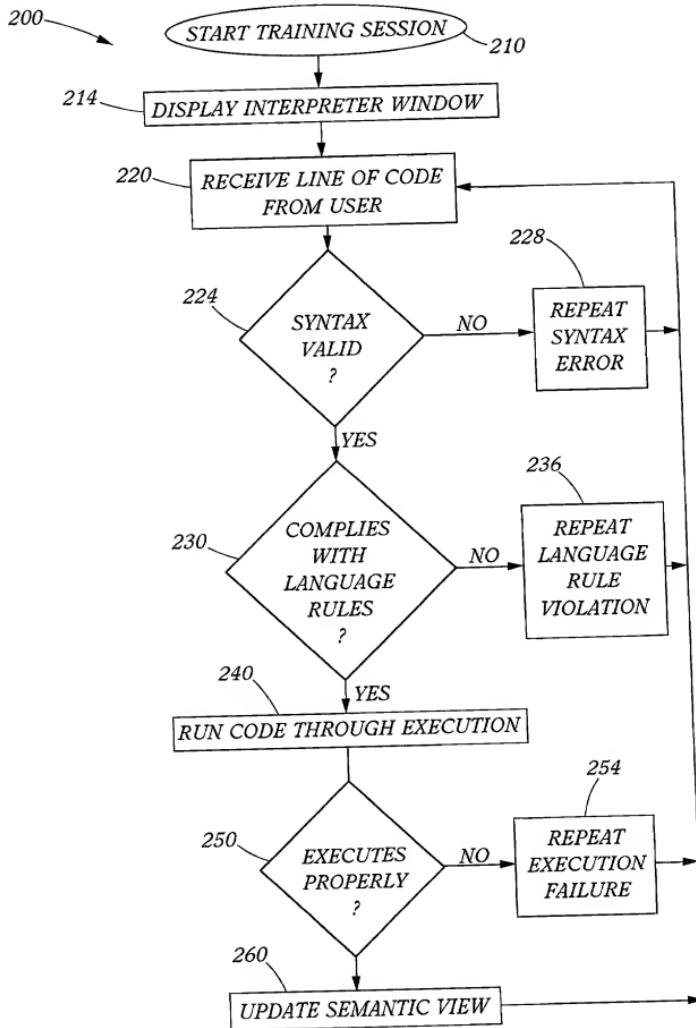


FIG. 2

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

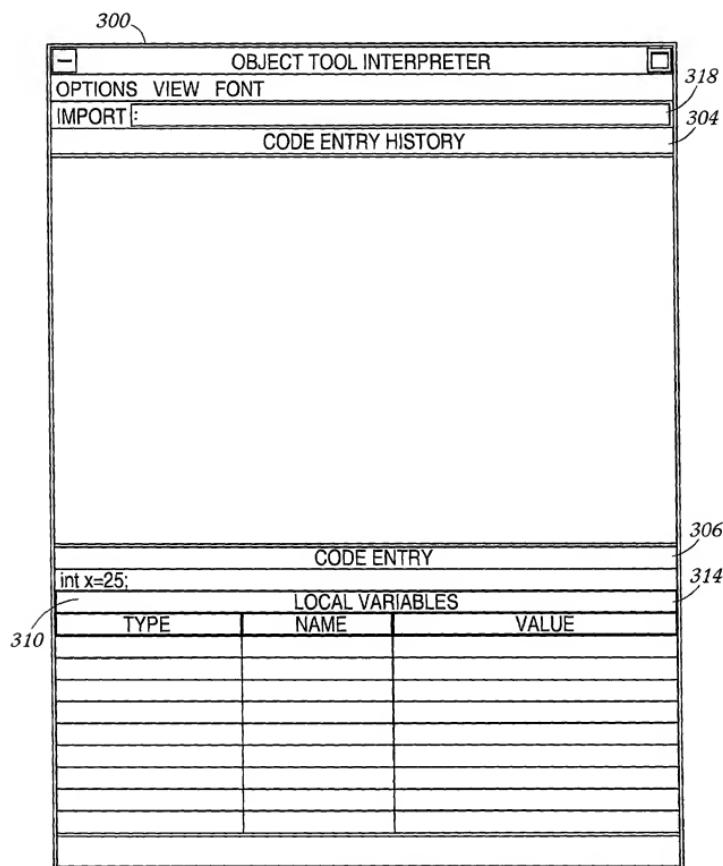


FIG. 3

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

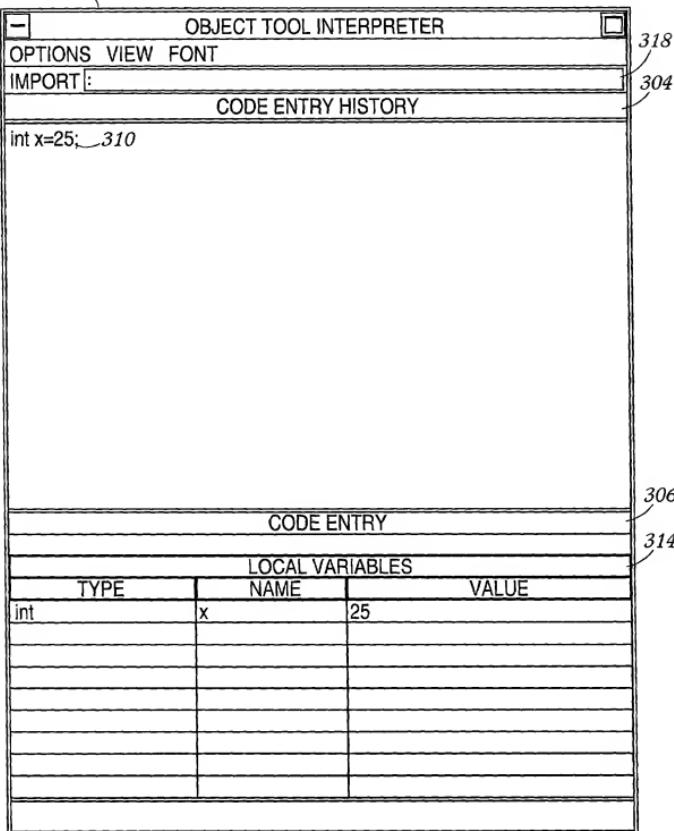
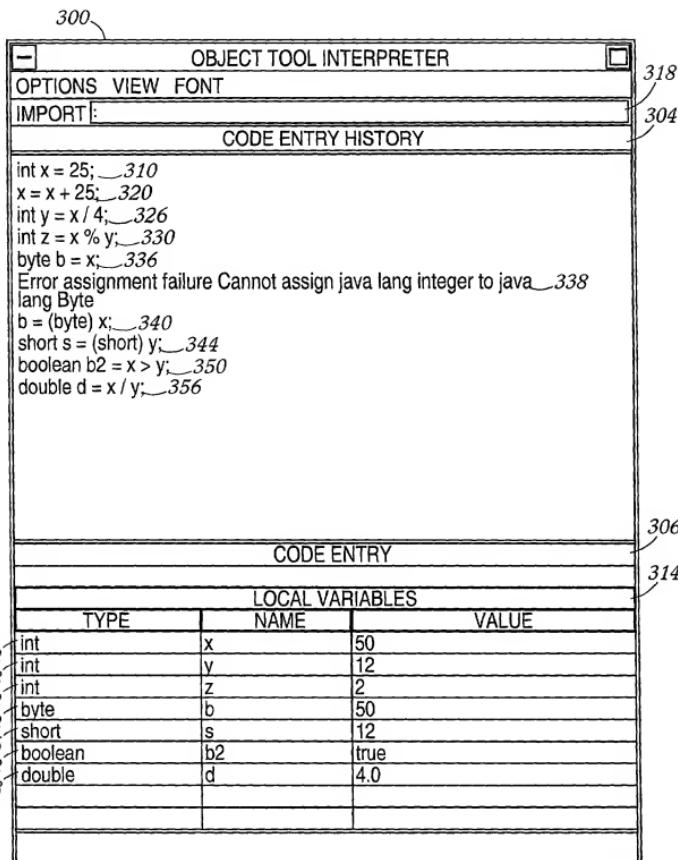


FIG. 4

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

+



20104100 - 220110 - 01

FIG. 5

+

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

+

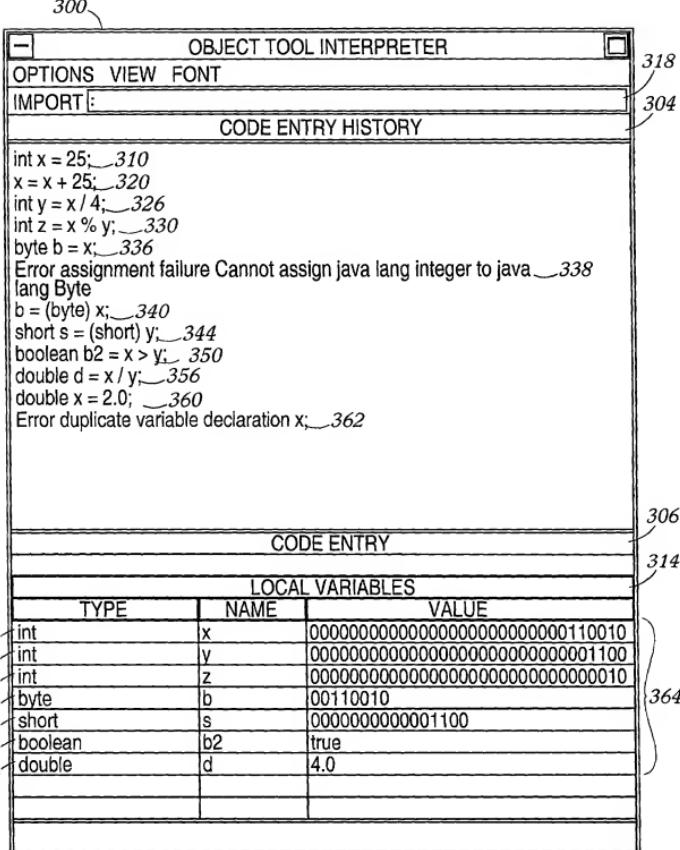


FIG. 6

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

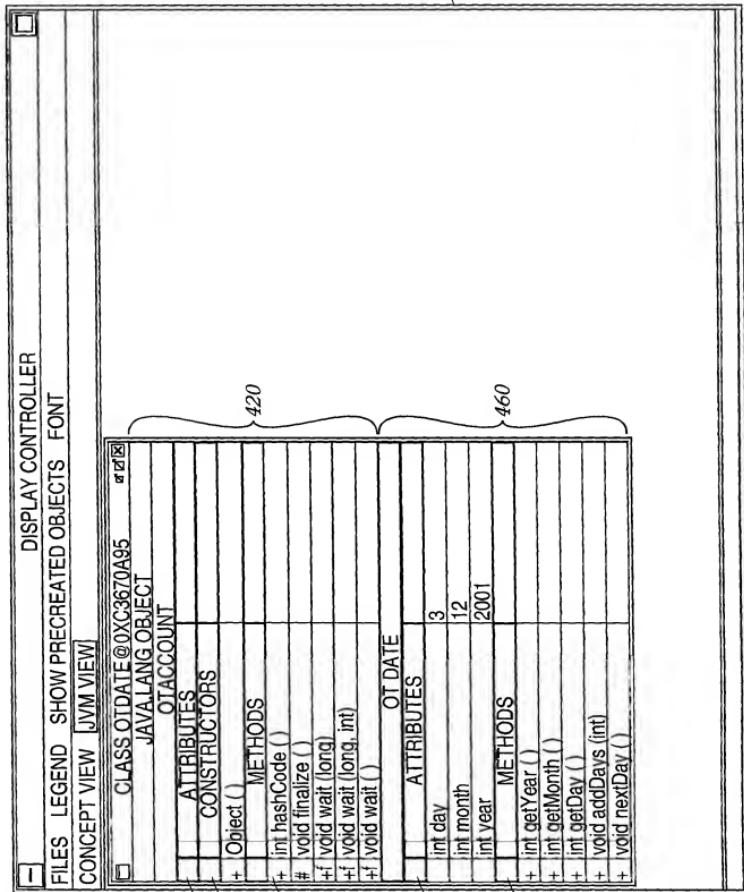


FIG. 7

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

300

The screenshot shows the "OBJECT TOOL INTERPRETER" window. The title bar has buttons for Minimize, Maximize, and Close. Below the title bar is a menu bar with "OPTIONS", "VIEW", "FONT", and "IMPORT". The "IMPORT" field contains a file path: "C:\Users\ASOK\Documents\Java\src\OTDDate.java". The main area is divided into two sections: "CODE ENTRY HISTORY" and "CODE ENTRY". The "CODE ENTRY HISTORY" section contains the following Java code with line numbers:

```

int x = 25; 310
x = x + 25; 320
int y = x / 4; 326
int z = x % y; 330
byte b = x; 336
Error assignment failure Cannot assign java lang integer to java lang Byte 338
b = (byte) x; 340
short s = (short) y; 344
boolean b2 = x > y; 350
double d = x / y; 356
double x = 2.0; 360
Error duplicate variable declaration x; 362
OTDate date1 = new OTDate(); 412
int today = date1 day; 432
date1 day = 31; 436
boolean leapYear = date1.isLeapYear(2001); 438

```

The "CODE ENTRY" section is currently empty.

Below the code entry sections is a table titled "LOCAL VARIABLES" with columns "TYPE", "NAME", and "VALUE". The table lists the following variables:

TYPE	NAME	VALUE
int	x	50
int	y	12
int	z	2
byte	b	50
short	s	12
boolean	b2	true
double	d	4.0
OTDate	date1	@0xc3670a95
int	today	3
boolean	leapYear	false

Annotations with numbers are present on the right side of the window:

- 318 points to the "CODE ENTRY HISTORY" section.
- 304 points to the "CODE ENTRY" section.
- 306 points to the "LOCAL VARIABLES" table.
- 314 points to the "LOCAL VARIABLES" table.

FIG. 8

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

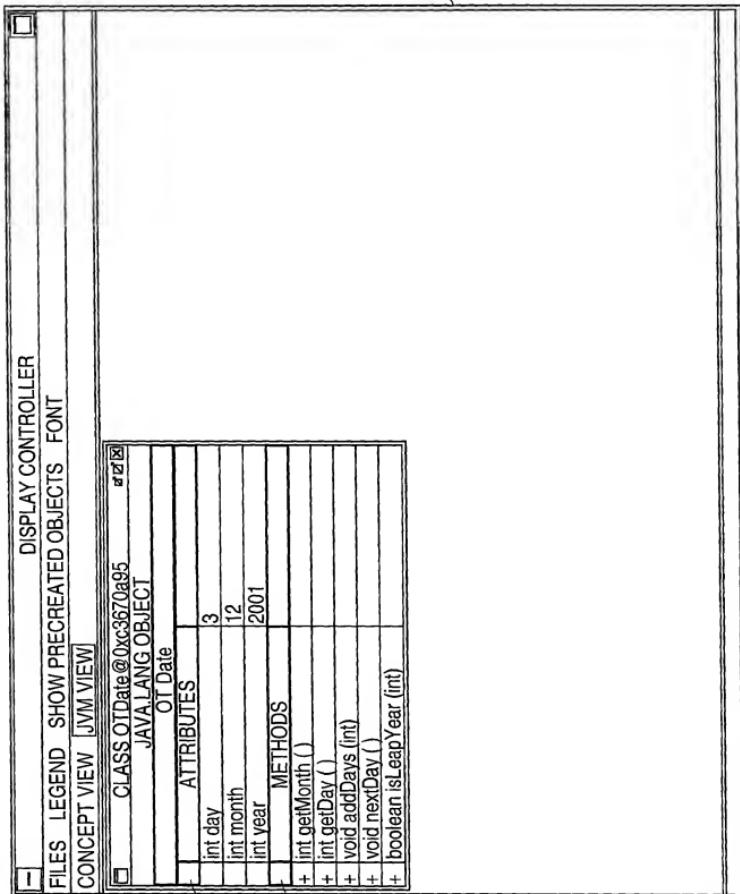


FIG. 9

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

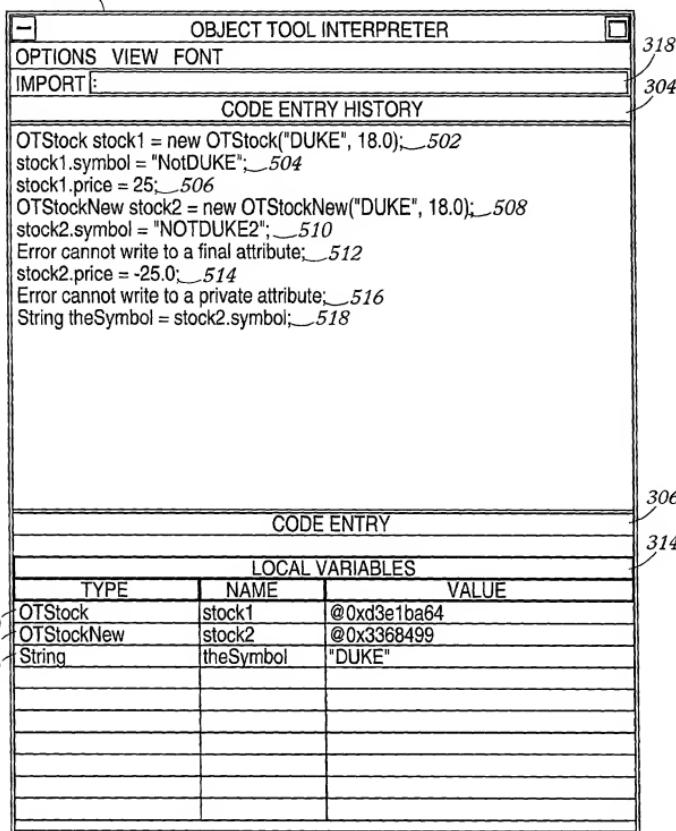


FIG. 10

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

DISPLAY CONTROLLER

FILE				LEGEND				SHOW PRECREATED OBJECTS				FONT																																																																																																																							
CONCEPT VIEW				JVM VIEW																																																																																																																															
<table border="1"> <thead> <tr> <th colspan="4">CLASS ODate@0xd3a1ba64</th> <th colspan="4">JAVA LANG OBJECT</th> <th colspan="4">OStock</th> <th colspan="4">ARRAY @0x062d1f</th> </tr> <tr> <th colspan="4">ATTRIBUTES</th> <th colspan="4">INDEX</th> <th colspan="4">TYPE</th> <th colspan="4">DATA</th> </tr> </thead> <tbody> <tr> <td>String symbol</td> <td>@0x3560f848</td> <td>0</td> <td>char</td> <td>0</td> <td>char</td> <td>1</td> <td>char</td> <td>2</td> <td>char</td> <td>3</td> <td>char</td> <td>4</td> <td>char</td> <td>5</td> <td>char</td> </tr> <tr> <td>double price</td> <td>25.0</td> <td>1</td> <td>char</td> <td>1</td> <td>char</td> <td>2</td> <td>char</td> <td>3</td> <td>char</td> <td>4</td> <td>char</td> <td>5</td> <td>char</td> <td>6</td> <td>char</td> </tr> <tr> <td colspan="4">METHODS</td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>+ int</td> <td>getPrice()</td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> </tr> <tr> <td>+ void</td> <td>setPrice(int)</td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> <td colspan="4"></td> </tr> </tbody> </table>																CLASS ODate@0xd3a1ba64				JAVA LANG OBJECT				OStock				ARRAY @0x062d1f				ATTRIBUTES				INDEX				TYPE				DATA				String symbol	@0x3560f848	0	char	0	char	1	char	2	char	3	char	4	char	5	char	double price	25.0	1	char	1	char	2	char	3	char	4	char	5	char	6	char	METHODS																+ int	getPrice()																	+ void	setPrice(int)																
CLASS ODate@0xd3a1ba64				JAVA LANG OBJECT				OStock				ARRAY @0x062d1f																																																																																																																							
ATTRIBUTES				INDEX				TYPE				DATA																																																																																																																							
String symbol	@0x3560f848	0	char	0	char	1	char	2	char	3	char	4	char	5	char																																																																																																																				
double price	25.0	1	char	1	char	2	char	3	char	4	char	5	char	6	char																																																																																																																				
METHODS																																																																																																																																			
+ int	getPrice()																																																																																																																																		
+ void	setPrice(int)																																																																																																																																		

CLASS Stock@0x3358499				JAVA LANG OBJECT				OStockNew				ARRAY @0xb0c095					
ATTRIBUTES				INDEX				TYPE				DATA					
String symbol	@0xbdb36aea6	0	char	D	char	1	char	U	char	2	char	K	char	E	char		
double price	18.0	1	char	1	char	2	char	U	char	3	char	K	char	E	char		
METHODS																	
+ double	getPrice()																
+ void	setPrice(int)																

FIG. 11

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

+

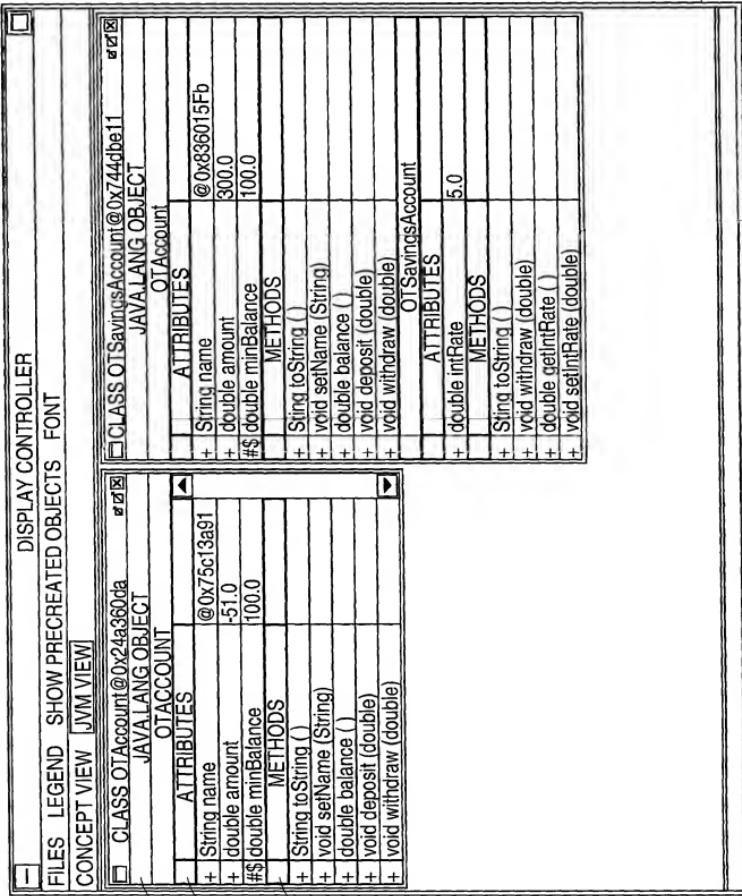


FIG. 12

正義のための政治

1

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213



EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

FIG. 14

EDUCATIONAL METHOD AND TOOL FOR ISOLATING AND TEACHING
PROGRAMMING LANGUAGE CONCEPTS
ASOK K. PERUMAINAR
P7213

2022/07/01 22:20:49 (GMT)

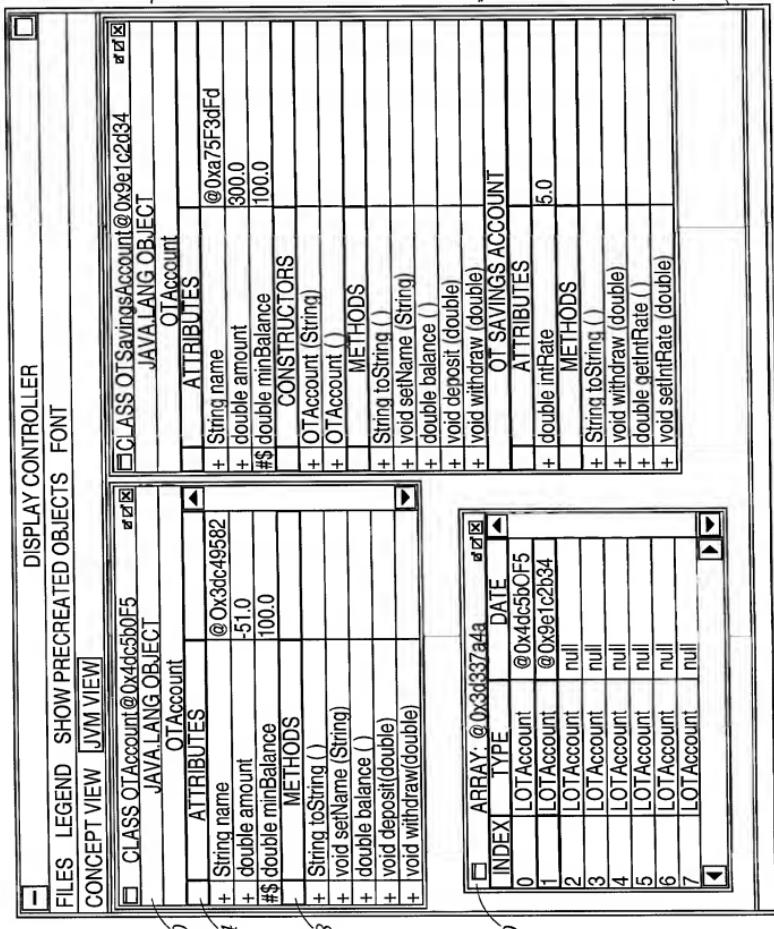


FIG. 15